

## SONNENKRAFT Installs 109 NEW Social Houses -Butchers Road, London

The initial phase of the redevelopment was completed in 2009 and provided the community with 109 new homes. The Butchers Road project was designed specifically to meet the requirements of sustainability code levels:



206m<sup>2</sup> of SONNENKRAFT Evacuated Tube Collectors were installed, They were laid at 20 degrees optimising available roof space and generating greater yields due to the parabolic reflectors and 360° absorbers. The buffer system and calorifiers used a heat transfer design; this reduced the original daily cleansing volume of 7,000 litres to just 50 litres. This also allowed maximum yield storage and vastly reduced stagnation periods.

### The installation

Our partners The EcoTeam certified installers of Renewable energy worked in conjunction with SONNENKRAFT to design this large scale installation in London

The SONNENKRAFT Collectors were mounted on 20° A- Frames that were fixed to a pre designed steel framework offering correct orientation and minimal shading.

### Performance

A Simulation of the SONNENKRAFT System indicates it will be capable of generating 87,35MWh per annum. As gas is the primary heating fuel being displaced, the total CO<sub>2</sub> saving at Butchers Road, will be approx 24,203 Kg/annum.

### Technical Datasheet

Type of Renewable Energy: Solar Thermal	VK25 , 14 tube Evacuated tube collector, 2.57 m <sup>2</sup> ,
Total Gross Surface Area:	206 m <sup>2</sup>
Number of collectors:	80 SONNENKRAFT Evacuated tube collectors
Orientation: South	Backup fuel: Gas
Angle of inclination: 20 degrees	Global warming target: Save 24,203Kg CO <sub>2</sub> p.a.